

(12)特許協力条約に基づいて公開された国際出願

(19) 世界知的所有権機関
国際事務局



(43) 国際公開日
2004 年 7 月 1 日 (01.07.2004)

PCT

(10) 国際公開番号
WO 2004/055436 A1

(51) 国際特許分類:
I/04, 3/00, F23D 21/00, F23N 1/00

F23K 1/02,

(74) 代理人: 松井 光夫 (MATSUI,Mitsuo); 〒105-0003 東京都 港区西新橋 2 丁目 19 番 2 号 西新橋 Y S ビル 3 階
松井特許事務所 Tokyo (JP).

(21) 国際出願番号: PCT/JP2003/015872

(22) 国際出願日: 2003 年 12 月 11 日 (11.12.2003)

(25) 国際出願の言語: 日本語

(26) 国際公開の言語: 日本語

(30) 優先権データ:
特願 2002-362202

2002 年 12 月 13 日 (13.12.2002) JP

(71) 出願人 および

(72) 発明者: 片山 優久雄 (KATAYAMA,Yukuo) [JP/JP]; 〒160-0015 東京都 新宿区大京町 21 番地 25 Tokyo (JP).

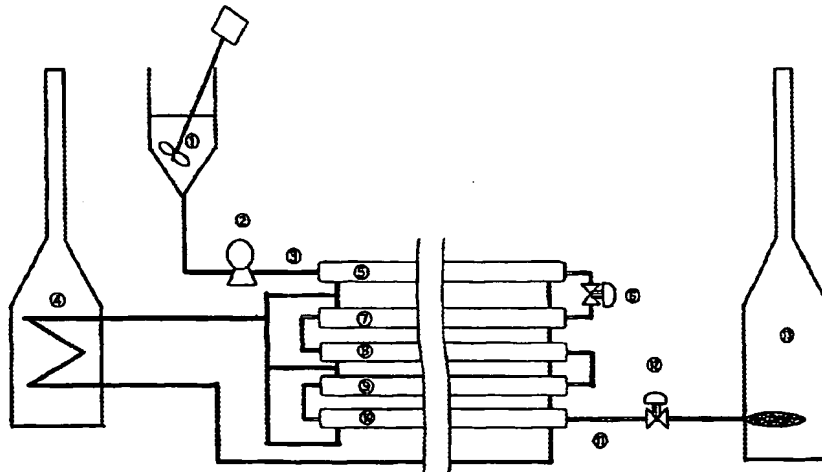
(81) 指定国 (国内): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) 指定国 (広域): ARIPO 特許 (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), ユーラシア特許 (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), ヨーロッパ特許 (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,

[続葉有]

(54) Title: METHOD OF FEEDING MIXTURE CONTAINING COMBUSTIBLE SOLID AND WATER

(54) 発明の名称: 可燃性固形物及び水を含む混合物の供給方法



(57) Abstract: A method comprising heating by means of a heater a mixture containing combustible solids and water so as to convert at least portion of the water of the mixture to steam form and subsequently feeding the whole of the mixture to a combustion furnace or gasification furnace wherein the mixture is transported by means of a pump at least between the heater and the combustion furnace or gasification furnace, characterized in that the pump exhibits a discharge pressure of between 1.5 MPa over the intra-furnace pressure of combustion furnace or gasification furnace and 22.12 MPa, and that the mixture having at least portion of the water thereof converted to steam form has a flow rate of 6 to 50 m/sec in piping within the heater and piping from an outlet of the heater to an inlet of the combustion furnace or gasification furnace. In this method, at the feeding of the mixture containing combustible solids and water wherein at least portion of the water has been converted to steam form to the combustion furnace or gasification furnace, there is substantially no wear of the interior of the piping wherein the mixture flows and stable supply of the mixture to the combustion furnace or gasification furnace can be accomplished.

[続葉有]